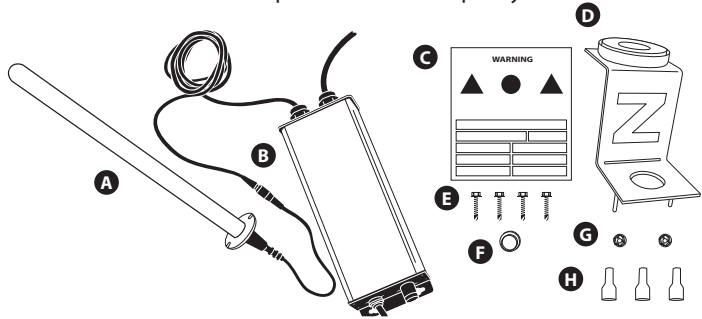


1 UV-CLEAN AIR

Germicidal UV Light Installation Instructions

The Germicidal UV Light is installed inside the air handling system to reduce biological contamination for reduced system maintenance and improved indoor air quality.



US patent #7,704,463

IMPORTANT!

- Only qualified technicians should install this product*
- Install in accordance with relevant building codes
- Read instructions carefully including safety warnings

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Parts Included

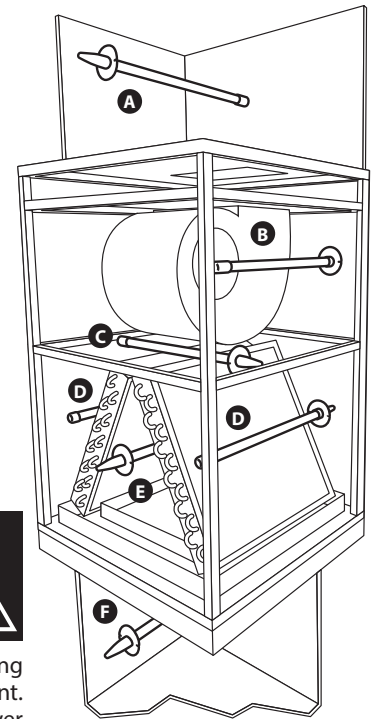
- A UV Lamp
- B Power Supply
- C UV Warning Sticker
- D "Z" Mounting Bracket
- E Self-Tapping Screws
- F Sight Glass
- G Quick-Nut (plastic)
- H Spade Connectors

2 Installation Notes

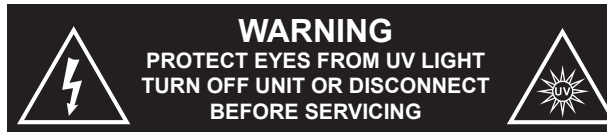
Before installing Germicidal UV Light it is necessary to determine the optimal mounting location inside the air system. First, look for the area with the heaviest mold growth. Also consider a location that will allow the germicidal UV light to shine on the greatest surface area. For enhanced anti-microbial effect 2 or more lamps can be installed in different parts of the air system.

Some typical mounting locations:

- A Supply-side duct
- B At the blower
- C Across top of coils
- D Coil face
- E Coil "A" plate
- F Return-side duct

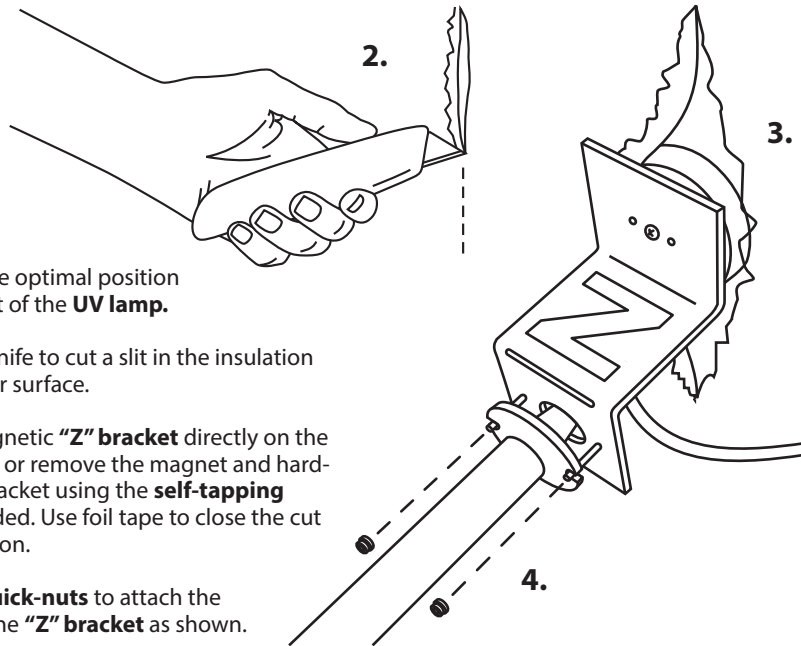


UV Lamp Mounting Options



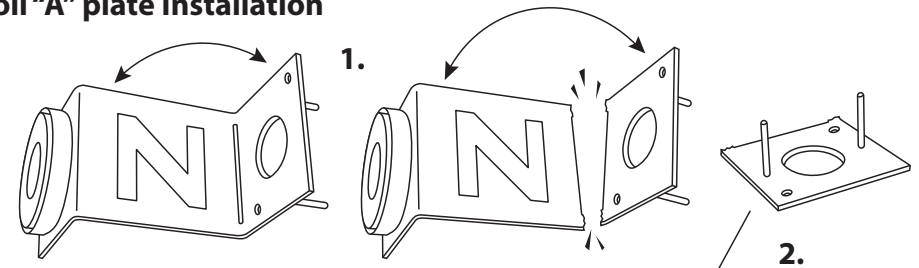
Important: some materials inside the air system (including filter media, flex duct, wiring etc.) may not be UV light resistant. Use the optional UV shield (part #TUV-SHIELD-LPC) or cover the materials with reflective tape.

3 Air Handler Interior Surface Installation

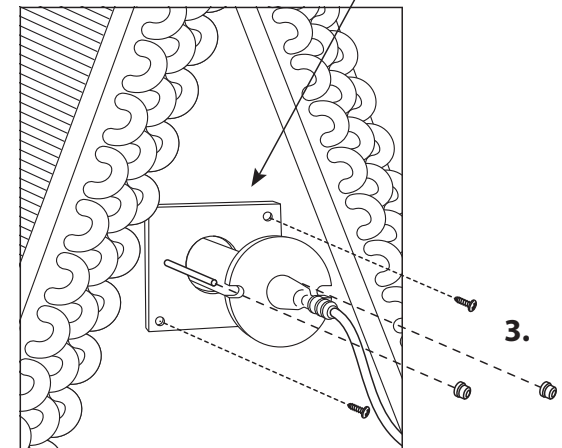


1. Determine the optimal position for placement of the **UV lamp**.
2. Use a utility knife to cut a slit in the insulation on the interior surface.
3. Place the magnetic **"Z" bracket** directly on the metal surface or remove the magnet and hard-mount the bracket using the **self-tapping screws** provided. Use foil tape to close the cut in the insulation.
4. Use plastic **quick-nuts** to attach the **UV lamp** to the **"Z" bracket** as shown.

4 Coil "A" plate Installation



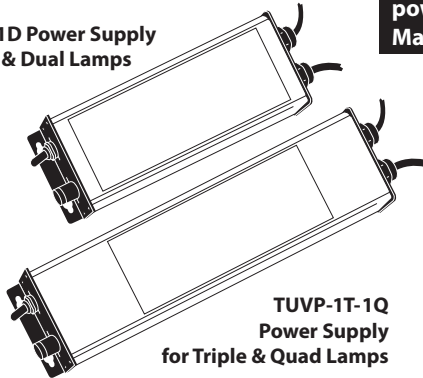
1. Snap the **"Z" bracket** apart by bending.
2. Drill a 1" hole in the "A"-plate then attach the smaller piece of the bracket using the **self-tapping screws**.
3. Insert the **UV lamp** into the hole then use the plastic **quick-nuts** to attach the **UV lamp** to the **"Z" bracket** as shown.



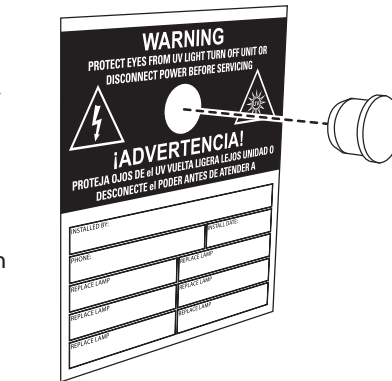
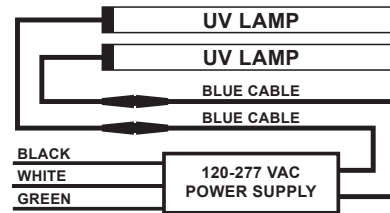
5 Power Supply Installation

1. Find a suitable location for the **power supply** outside or inside the air handler/furnace. Install the **power supply** in a location that allows easy access to the power switch to turn on/off the UV light for servicing. Install using the **self-tapping screws**.
2. Use the wiring diagram to properly connect to 110 - 277 VAC power.

TUVP-1S-1D Power Supply
for Single & Dual Lamps



IMPORTANT! Must be wired to constant power - do not connect to blower relay. Make sure unit is properly grounded.

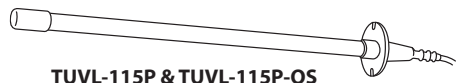


7 Sight Glass Installation

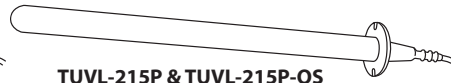
1. Find a suitable location on the outside of the duct-work near the UV Lamp installation and apply the warning/lamp replacement sticker.
2. Drill a 1/2" hole through the orange circle on the sticker. Press the UV safety viewfinder into hole.
3. Turn on the main power then turn on the switch on the UV light power supply. Use the sight glass to confirm that the UV Lamp is operating.

8 Lamp Replacement

The germicidal UV lamp in Germicidal UV Light needs to be replaced periodically. TUVL-115P and TUVL-115P-OS (odor control) lamps should be replaced every year. TUVL-215P and TUVL-215P-OS should be replaced every 2 years. Note: UV lamps will continue to emit visible light but lose germicidal effectiveness over time. You can upgrade to a 2 year and/or odor control lamp with your existing power supply.



TUVL-115P & TUVL-115P-OS



TUVL-215P & TUVL-215P-OS

6 UV Lamp Connection

1. When all the other components are properly installed connect the UV Lamp cable(s) to the power supply cable(s).
2. Make sure the flanges are aligned and then push the connectors firmly together. A tight connection ensures a proper water-resistant seal.

